SHARP®
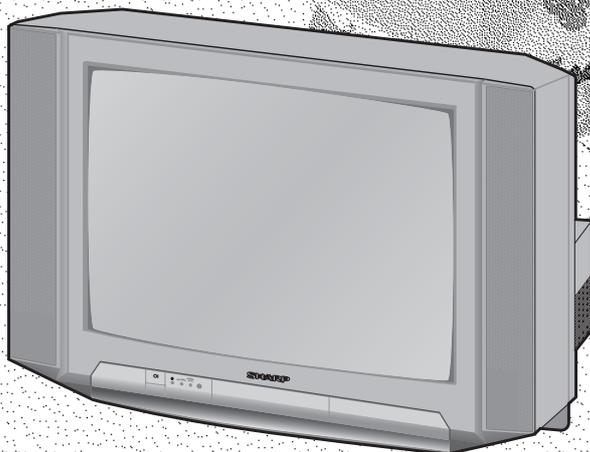
COLOUR TELEVISION

MODEL

CX68N5

■ OPERATION MANUAL ■

Please read this operation manual carefully before using the colour television.

Dimension: 176 x 250 mm

Contents

Dimension: 176 x 250 mm

Dear SHARP Customer

Thank you for buying SHARP's Colour Television. We hope you will have many years of enjoyment from this television set. To ensure proper operation, please read this manual carefully, and keep it in a safe place for future reference.
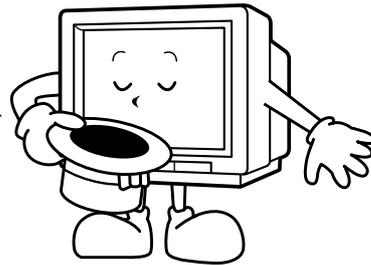
Accessories

The following accessories are included with this television.
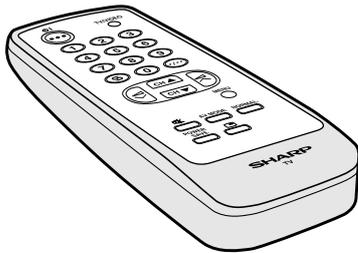
Remote control
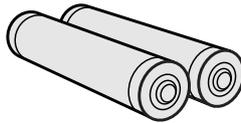
Size-AA batteries
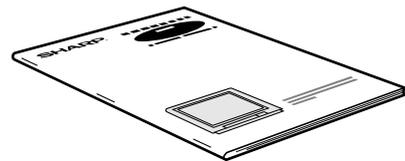
Operation manual

E 2

🔌 Easy setup

To use your TV set, perform the easy setup procedure below.

The ▢ mark indicates the page numbers with more detailed information.

1
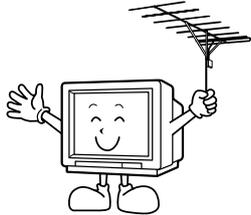
Connect the antenna.

• See **25** to connect the antenna.

2
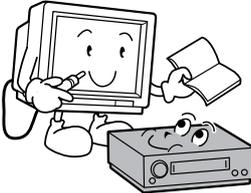
Connect any video equipment.

• See **25** , **26** to connect video equipment.
• See the operation manual of your video equipment when connecting to the TV set.

3
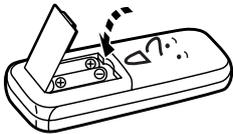
Insert the batteries into the remote control.

• Use the two batteries included with the TV.
• See **5** .

4
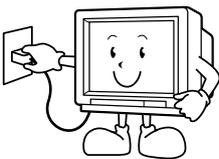
Insert the AC plug to the power outlet.

• If you will not use the TV set for a considerable length of time, as a safety precaution, unplug the cord from the outlet.

5

Tune the channels.

• Use the buttons on the TV.
• See **13** , **14** .

Dimension: 176 x 250 mm

⚡ Safety precautions

Damage

Turn off the power and unplug the power cord from the wall outlet immediately if the TV set begins to make any unusual noises or gives off smoke or an unusual smell. Then call your dealer for service.

Water
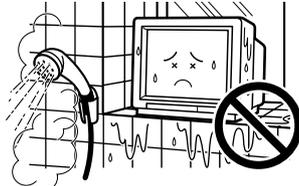
To prevent fire or electrical shock, do not place the TV set near a bath, swimming pool or other area where it may become wet.

Servicing
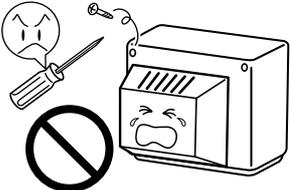
To reduce the risk of electric shock, do not remove the back of the cabinet. This TV set contains dangerous voltage.

Moisture

To prevent electrical shock, do not use the TV set in an excessively damp place.

Unstable surface and shocks
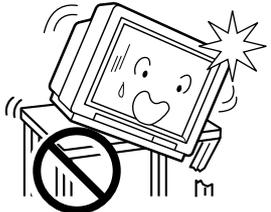
Do not place this TV set on an unstable cart, stand, shelf, or table. The TV set may fall, causing serious injury to a child or adult, and serious damage to the set.

Sharp recommends securing the TV set to a stable surface or wall to prevent the set from falling due to sudden shocks or impact.

Power-cord protection
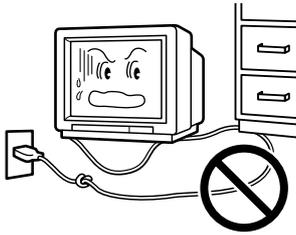
To prevent electrical shock, do not subject the AC power cord to damage by bending or twisting it, or by placing heavy items on top of it and do not place the AC power cord under the TV set. If the AC power cord becomes damaged, unplug it from the wall outlet immediately and call your dealer for service.

Liquid entry

Do not place a flower vase or anything else containing liquid on the TV set, as liquid spilt on the TV set can cause electrical shock or failure.

Ventilation

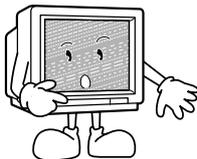Do not place this TV set in a confined area, such as on a bookshelf or in a built-in case. Leave adequate space behind the TV for proper ventilation.

Object entry

Never insert or drop any metallic or inflammable objects into the ventilation openings of the TV set, as this can cause fire, electrical shock, or electrical failure.

TV Set position
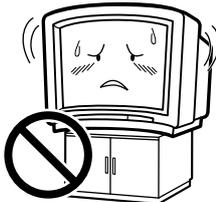
Do place the TV set onto an even stand, table or track which size is bigger than the TV set.
If the TV set is put onto a smaller size or uneven stand, table or track may cause the TV cabinet distort. Do not put or insert anything between TV set and the stand, table or track.

Dimension: 176 x 250 mm

🔌 Part names

The ⬜ mark indicates the page numbers with more detailed information.

Remote control

Infrared transmitter window
Aim this window at the infrared
sensor window on your TV set.

⏻| 7
Turns the TV on or to
Standby mode.

↺ 10
Returns to previously viewed
channel.

◁⌃/◁⌄ 7
Adjusts the volume.
Used for MENU setup.

◻🔇 9
Mutes the sound and restores
sound to previous level.

AV MODE 9
Changes Picture and Sound setting.
STANDARD, SOFT, DYNAMIC

POWER SAVE 19

◻ 9
Displays the channel and timer
settings on the screen.

10 TV/VIDEO
Switches between TV broadcasts
and A/V input programmes.

7 Number buttons

7 ·/··
Switches between one- or two-digit
mode channel selection.

7 CH ▲/CH ▼
Selects the channel.
Used for MENU setup.

11 MENU
Calls the MENU screen.

16 NORMAL
Resets all settings.

SHARP
TV

Installing batteries in the remote control unit

1 With your thumbnail, pull
up at the slit to open the
battery cover.
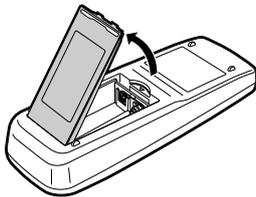
2 Insert two batteries
(size AA).
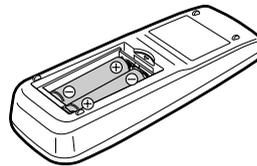
3 Replace the battery cover.
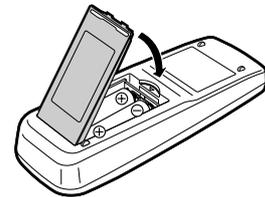
NOTE • Be sure to match the battery ⊕/⊖ terminals with the ⊕/⊖ marks inside the compartment.
• Remove the batteries if weak or if the unit is not in use for long periods.
• Do not mix old and new batteries.
• Incorrect installation of the batteries may damage the remote control.

E 5

TV set

TV front

OI **7**

Power switch
Turns on and off
the main power.

Power indicator **7**
Power can be turned on
by the remote control
when the indicator is red.

On timer indicator **22**

Power save indicator **19**

Infrared sensor window **5**
Receives the infrared wave
from the remote control.

Behind the door

PRESET /MENU   ∨◢∧   ∨ CH ∧   Ω   VIDEO   (MONO) L-AUDIO-R
                                                  AV-3 IN

PRESET/MENU **11**

PRESET/MENU button
Tunes the channels.
Used for MENU setup.

◢∧ / ◢∨ **7**

Volume up/down button
Adjusts the volume.
Makes adjustments in PRESET.

CH∧ / CH∨ **7**

Channel up/down button
Selects the channels.
Tunes or sets the channels.

27 **Audio input
terminals (AV-3)**
Connects to a camcorder,
video game, etc.

27 **Video input terminal (AV-3)**
Connects to a camcorder,
video game, etc.

8 **Headphone jack**
Use to listen to the
audio with headphone.

NOTE • When using headphone, see **8** .

E 6

Dimension: 176 x 250 mm

✍ Watching TV

Watching a TV programme

TV Set
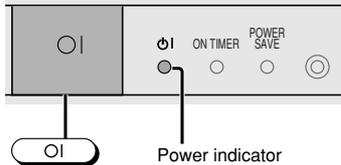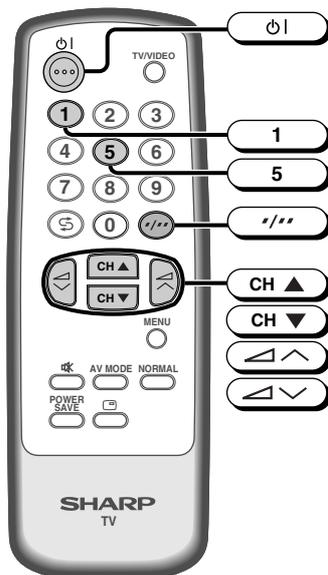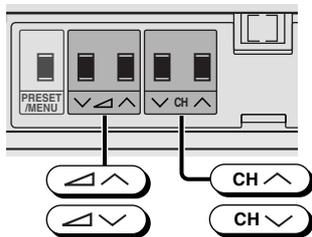
Simple operations for watching a TV programme

ON TIMER   POWER SAVE

OI

Power indicator

1 **Turn on power.**
- When the power indicator is off, press (OI).
- When the power indicator is red, press (⏻|) on the remote control. The power indicator changes to green and a picture appears.

Behind the door

PRESET /MENU   ∨⊿∧   ∨CH∧

⊿∧   CH∧
⊿∨   CH∨

2 **Select channel.**

With (CH∧) / (CH∨)

- Press (CH∧) and channels change as shown below.
  1 → 2 → ... → 98 → 99 → AV1 (or SAV1) → AV2 (or COMPONENT)
  → AV3 → 0 → 1 → 2 ...
- Press (CH∨) and channels change as shown below.
  1 → 0 → AV3 → AV2 (or COMPONENT) → AV1 (or SAV1) → 99 →
  98 → ... → 2 → 1 → 0 ...

With the number buttons (on remote control)

- To select a one-digit channel, such as 5, press (5).
  If "5-" is indicated, press (•/••) to select one-digit input, and then press (5) again.
- To select a two-digit channel, such as 15, press (•/••) to select the two-digit input. Press (1), and then press (5).

⏻|

TV/VIDEO

1 2 3   1
4 5 6   5
7 8 9
↩ 0 •/••   •/••

CH▲   CH ▲
CH▼   CH ▼
MENU
🔇 AV MODE NORMAL   ⊿∧
POWER SAVE   ⊿∨

--

1-

15
PAL

SHARP
TV

3 **Adjust volume using (⊿∧) / (⊿∨).**
- The number of oval blocks "▮" indicates the volume level. The volume bar disappears approximately three seconds after the volume has been adjusted.

```
VOLUME                10
⊿ ●●●·········
```
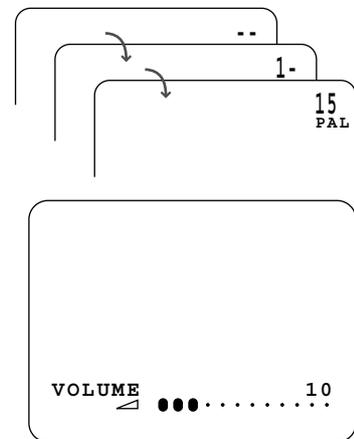
NOTE ▸
- When the power indicator is red, either (CH∧) / (CH∨) on the TV can be pressed to turn on the power.
- The channel number is displayed in green for channels tuned by auto tuning and displayed in yellow for channels tuned using fine tuning.
- When the power indicator is red, the TV is in Standby mode and power is still supplied to the TV. If you will not watch TV for a while, turn off the main power by pressing (OI) on the TV set. Also, if you will not be at home for a considerable length of time, unplug the cord from the outlet.
- The AV1 (or SAV1), AV2 (or COMPONENT) and AV3 input channels cannot be selected using (CH ▲) / (CH ▼) on the remote control. Use (TV/VIDEO) to select these channel.
- Channels that have been skipped cannot be selected. See **15** .
- The on-screen displays in this manual may differ from their actual appearance.
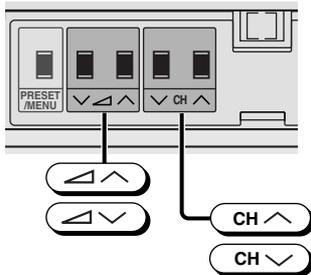
Operating the TV buttons

Simple operation of the TV set

Behind the door

PRESET /MENU ∨ ⊿ ∧   ∨ CH ∧

⊿∧
⊿∨
CH∧
CH∨

Using ⊿∧ / ⊿∨

Press ⊿∧ to increase volume.

Press ⊿∨ to decrease volume.

VOLUME ⊿ ●●●●·········15

Using CH∧ / CH∨

Press CH∧ to increase channel number.

Press CH∨ to decrease channel number.

5
PAL

Behind the door

VIDEO   (MONO) L-AUDIO-R
Ω   AV-3 IN
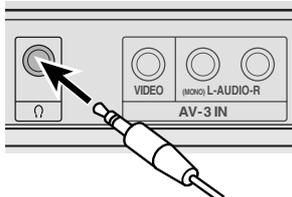
Using headphone

Insert headphone plug into headphone jack to listen to audio with headphone.

• The audio from the speakers is turned off.

NOTE ➤ • Select an appropriate volume so as not to injure your hearing.
• To avoid injuring your hearing, do not put on the headphone before plugging them into the headphone jack and before the power is turned on.
• The proper impedance for the headphone is 32 ohms.
• Remove the headphone plug from the jack when not using the headphone.

E 8

🔘 Useful features

Channel/Timer display

Displays the current channel number, the timer, and other settings on the screen.
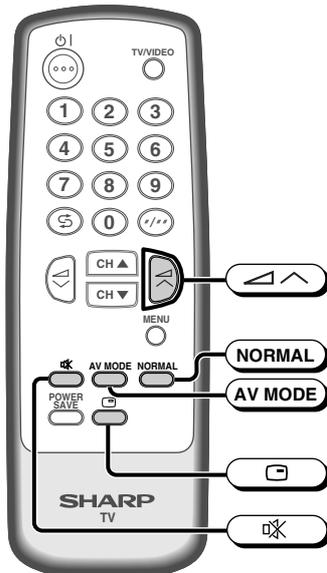
1 **Press ⬚.**
- The time remaining on the Off timer, On timer, and Reminder appears on the screen.
- When no Timer is set, the channel number and colour system appear on the screen. Press again to clear these current settings display on the screen.

```
OFF  2:30
ON   8:00
     1:50
```

2 **Press ⬚ again.**
- The channel number and colour system appear on the screen.

```
5
PAL
```

3 **Press ⬚ once again.**
- The display disappears.

Mute

Silences the sound.

1 **Press ◁✕.**
- "◁✕" appears on the screen, and the sound is silenced.

2 **Press ◁✕ again.**
- The volume returns to its previous level.

AV Mode

Each time you press the (AV MODE) button, the mode switches between STANDARD, SOFT and DYNAMIC.

STANDARD: Normal mode
SOFT: Soft mode
DYNAMIC: Dynamic mode

(STANDARD) → (SOFT) → (DYNAMIC)
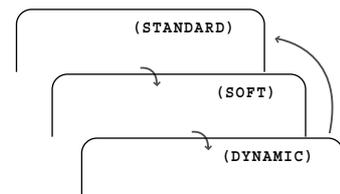
NOTE
- To return to the original setting (factory setting), press the (NORMAL). For adjusting the Picture and Sound modes, please see **16** and **17**.
- Mute will be cancelled if the (◁⌃) is pressed at anytime.

E 9
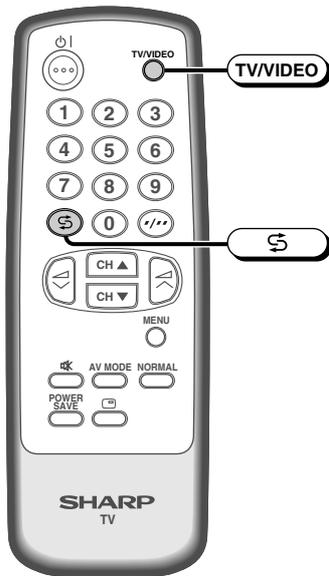
Channel recall

Switches back to the channel you were watching just before the current channel.

Press ⮌ .

• The channel previously viewed returns to the screen.

Example:

After switching from channel 5 to channel 7, ⮌ is pressed, the channel will change to channel 5. Press ⮌ again to return to channel 7.

```
                                    5
                                   PAL
                  ↓
                                    7
                                   PAL
                  ↓
                                    5
                                   PAL
                  ↓
                                    7
                                   PAL
```
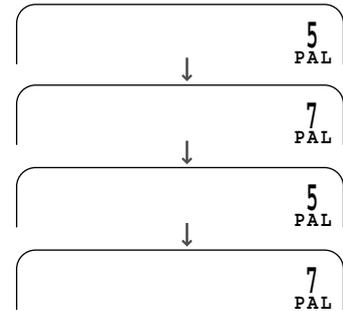
TV/Video selection

Switches between TV broadcasts and AV input programmes.

Each time you press the (TV/VIDEO), the input switches between AV1 (or SAV1), AV2 (or COMPONENT), AV3 and TV programme.

```
        SAV1 or AV1
    COMPONENT or AV2
                AV3
                25
                PAL
```

E 10
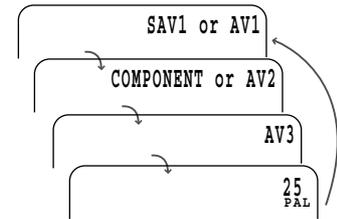
📖 Selecting menu items

This TV set allows you to adjust the picture and sound, and set the channels and other features using the On-screen display with the remote control or from the TV set. Select the desired menu item by following the steps below and then refer to the indicated page for details.

Remote control
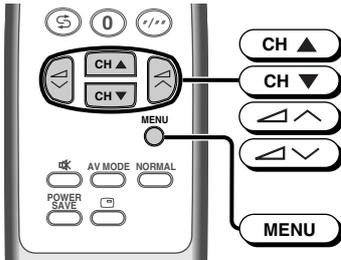
Behind the door
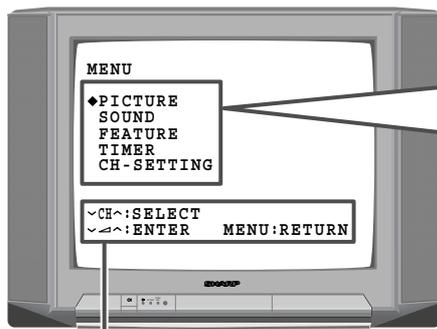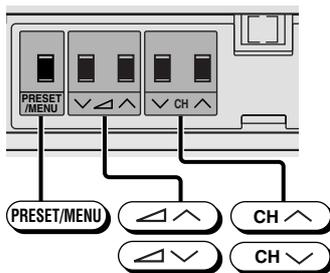
Operating guide

Selecting a menu item

1 Press **MENU** / **PRESET/MENU** to call MENU screen.

```
MENU

◆PICTURE
 SOUND
 FEATURE
 TIMER
 CH-SETTING
```

2 Press **CH ▲** / **CH ▼** or **CH ∧** / **CH ∨** to select desired menu item.
• The selected item is highlighted in yellow.

```
MENU

 PICTURE
◆SOUND
 FEATURE
 TIMER
 CH-SETTING
```

3 Press **⊿∧** / **⊿∨** to enter.
• The corresponding menu screen will appear.

```
SOUND        (STANDARD)

◆SURROUND      ON
 TREBLE        +10
 BASS          -20
 BALANCE       ▷20
```

PICTURE menu ········· **16**

```
PICTURE       (STANDARD)

◆CONTRAST      10
 COLOUR        0
 BRIGHTNESS    +10
 TINT
 SHARPNESS     -10
 PICTURE NR    ON
 WHITE TEMP    ◆20
⌄CH∧:SELECT
⌄⊿∧:ADJUST  MENU:RETURN
```

SOUND menu ········· **17**

```
SOUND        (STANDARD)

◆SURROUND      ON
 TREBLE        +10
 BASS          -20
 BALANCE       ▷20

⌄CH∧:SELECT
⌄⊿∧:ADJUST  MENU:RETURN
```

FEATURE menu ··· **18** — **20**

```
FEATURE

◆BLUE BACK     ON
 SAVE          ON
 VM            ON

⌄CH∧:SELECT
⌄⊿∧:ADJUST  MENU:RETURN
```

TIMER menu ········ **21** — **23**

```
TIMER

◆OFF          --:--
 ON           --:--
  POSITION
  VOLUME
 ⊠            --:--
⌄CH∧:SELECT
⌄⊿∧:ADJUST  MENU:RETURN
```

CH-SETTING menu ········· **15**

```
CH-SETTING

◆POSITION      CH27
 COLOUR        AUTO
 SKIP          OFF
 FINE          168.25MHz

⌄CH∧:SELECT
⌄⊿∧:ADJUST  MENU:RETURN
```

```
MENU

◆PICTURE
 SOUND
 FEATURE
 TIMER
 CH-SETTING

⌄CH∧:SELECT
⌄⊿∧:ENTER  MENU:RETURN
```

NOTE
• If you press **PRESET/MENU** on TV set for more than two seconds, the LANGUAGE mode screen will appear instead of the MENU screen. To display the MENU screen, press **PRESET/MENU** until the normal screen appears, then press the button again.
• The procedures for setting and selecting the menu items on the following pages are described using the buttons on the remote control. These procedures can also be performed using the corresponding buttons on the TV set.

Dimension: 176 x 250 mm

⟷ Settings and adjustments

On-screen display language selection

The on-screen display language can be set to English, Chinese, French, Russian, Malay or Arabic.

Behind the door

CH ︿
PRESET/MENU   CH ﹀
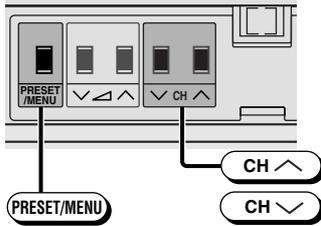
TV set

1 Press (PRESET/MENU) **for more than two seconds.**

2 Press (CH ︿) / (CH ﹀) **to select desired language.**

• Pressing (PRESET/MENU) changes the screen as shown below.

┌→ Language ⟶ AUTO ⟶ MANUAL ┐
└────── Normal screen ←──────┘
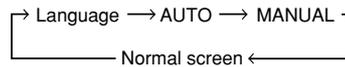
3 Press (PRESET/MENU) **until normal screen appears.**

```
◆ENGLISH
 中  文
 FRANCAIS
 РУССКИй
 BAHASA MELAYU
 العربية
```

Settings and adjustments

Manual channel tuning

Enables manual channel tuning to a desired TV station. (e.g. tuning the TV to a VCR, tuning in an additional TV station.)
NOTE: This TV is already tuned into 2, 7, 9, 10 and 28.
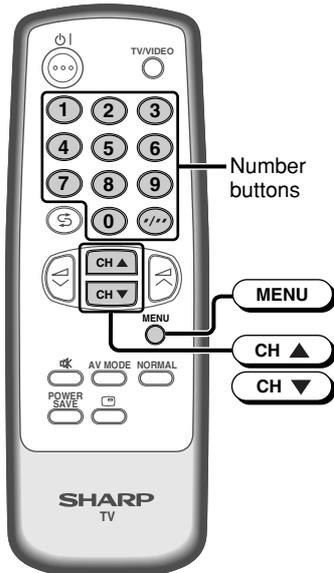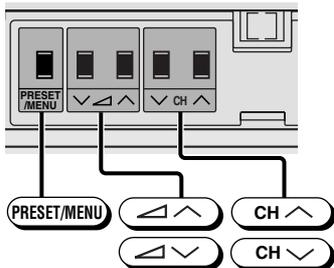
Number buttons

MENU

CH ▲

CH ▼

1 Press (PRESET/MENU) for more than two seconds. The language select mode appears.

```
◆ENGLISH
  中 文
  FRANCAIS
  РУССКИЙ
  BAHASA MELAYU
  العربية
```

2 Press (PRESET/MENU) twice to display MANUAL mode screen.

• Pressing (PRESET/MENU) changes the screen as shown below.

→ Language ⟶ AUTO ⟶ MANUAL ⌐
⌐⎯⎯ Normal screen ⟵
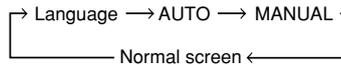
```
MANUAL(B/G)
VHF        1
   48.25MHz
```

3 Press (CH ▲) / (CH ▼) or
(CH⌃) / (CH⌄) or number buttons to select channel position.

```
MANUAL(B/G)
VHF        5
   107.50MHz
```

Channel position

Behind the door

PRESET/MENU   ⊿⌃   CH⌃
              ⊿⌄   CH⌄

4 Press (⊿⌃) / (⊿⌄) on TV set to locate channel you wish to preset to current channel position.

• Search is initiated and when a TV signal is received during the search, the search stops.

5 Repeat steps 3 and 4 above, to preset channel positions for other broadcasts.

6 Press (PRESET/MENU) again to display normal screen.

E 13

Auto channel tuning

Automatically tunes in and presets receivable TV stations, using consecutive channels numbers (e.g. 2, 7, 9, 10 will be stored as 1, 2, 3, 4).

Behind the door

PRESET/MENU   ⊿∧
                   ⊿∨

1 **Press (PRESET/MENU) for more than two seconds. The language select mode appears.**

```
◆ENGLISH
  中  文
  FRANCAIS
  РУССКИй
  BAHASA MELAYU
  العـربيـة
```

2 **Press (PRESET/MENU) again to display AUTO mode screen.**

• Pressing (PRESET/MENU) changes the screen as shown below.

```
┌→ Language ──→ AUTO ──→ MANUAL ─┐
└──────── Normal screen ←────────┘
```

```
AUTO(B/G)
VHF         1
  48.25MHz
```

3 **Press (⊿∧) / (⊿∨) on TV set.**

• All the TV stations in your area that can be received by the TV set are automatically preset between channels 1 to 99.

• The screen shows whatever is on channel 1 when auto channel preset is finished.

```
              1
             PAL
```

NOTE • AUTO PRESET stores all receivable channels including those which may be very weak and not clearly visible. To preset only those channels designated for the local viewing region, use MANUAL PRESET. See **13** .

• Unused channels are automatically skipped.

Dimension: 176 x 250 mm

Settings and adjustments

Channel setting

Enables individual channel setting.

1 Press (**MENU**) to call MENU screen.

```
MENU

 PICTURE
 SOUND
 FEATURE
 TIMER
◆CH-SETTING
```

2 Press (**CH ▲**) / (**CH ▼**) to select "CH-SETTING".

3 Press (**◁⌃**) / (**◁⌄**) to display CH-SETTING menu.

```
CH-SETTING

◆POSITION          CH27
 COLOUR            AUTO
 SKIP              OFF
 FINE              168.25MHz


⌄CH⌃:SELECT
⌄◁⌃:ADJUST   MENU:RETURN
```

4 Press (**CH ▲**) / (**CH ▼**) to select desired setting.

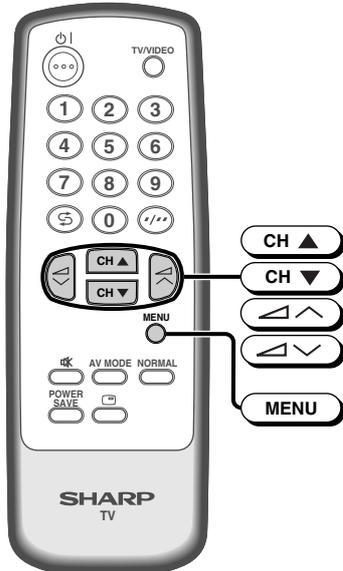**5** Each time you press (**◁⌃**) / (**◁⌄**), setting for individual items changes as follows:

• **POSITION**
The channel position changes to the higher or lower number.

• **COLOUR**
AUTO ↔ PAL

• **SKIP**
ON ⟷ OFF
Channel numbers with a "❖" mark on the left are set to SKIP. To turn off SKIP, press the number buttons to select the desired channel and then set "SKIP" to "OFF".

• **FINE**
The frequency changes to allow fine tuning.

6 Press (**MENU**) until normal screen appears.

• When you select AV1, AV2 or AV3 for the channel position, the CH-SETTING menu changes as shown on the right and the colour mode changes in the following order:

```
CH-SETTING

◆POSITION          AV1
 COLOUR            AUTO




⌄CH⌃:SELECT
⌄◁⌃:ADJUST   MENU:RETURN
```

┌→AUTO ↔ PAL ↔ N443 ↔ N358 ←┐

NOTE ➤ • Switching COLOUR system:
Set the system to "AUTO" for normal TV reception. The AUTO mode automatically detects the receiving signal system and changes the reception system of the TV set. When the picture is not stable, switching to an appropriate system may improve the picture quality.
• In a weak reception area, or under bad reception conditions, you can change the frequency for fine tuning.
• When using FINE, the channel number changes from green to yellow.
• To return the channel to its original frequency setting, follow the manual channel tuning procedure. See **13** .

Picture adjustment
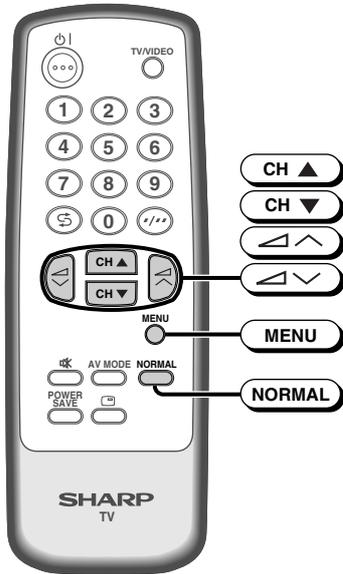
1 Press (MENU) to call MENU screen.

2 Press (CH ▲) / (CH ▼) to select "PICTURE".

```
MENU

◆PICTURE
 SOUND
 FEATURE
 TIMER
 CH-SETTING
```

3 Press (◿︎ へ) / (◿︎ ∨) to display PICTURE menu.

4 Press (CH ▲) / (CH ▼) to select adjustment items.

```
PICTURE        (STANDARD)

◆CONTRAST         50
 COLOUR            0
 BRIGHTNESS      +10
 TINT
 SHARPNESS       -10
 PICTURE NR       ON
 WHITE TEMP      ◆20
```

5 Adjust using (◿︎ へ) / (◿︎ ∨).

• Wait for approximately three seconds to return to PICTURE menu.

```
                 (STANDARD)




CONTRAST              50
- ├──────────┼──────┤ +
```

6 Repeat steps 4 and 5 above to adjust other items.

7 Press (MENU) until normal screen appears.

• When (NORMAL) is pressed while the PICTURE menu is displayed, the setting for the selected item is reset to the standard (factory setting) position.

• When (NORMAL) is pressed while the MENU screen is displayed and "PICTURE" is selected, all the settings for the PICTURE items are reset to the standard (factory setting) position.
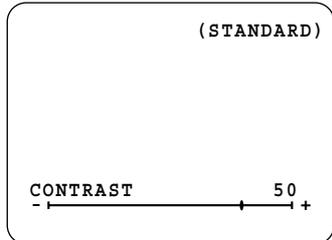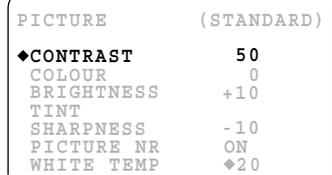
The following table lists the adjustment items shown in the PICTURE menu and how they change as you press (◿︎ へ) / (◿︎ ∨).

Selected item	Press (◿︎ ∨)		Press (◿︎ へ)
CONTRAST	To decrease contrast	- ├──┼──┤ + ← →	To increase contrast
COLOUR	For less colour intensity	- ├──┼──┤ + ← →	For more colour intensity
BRIGHTNESS	For less brightness	- ├──┼──┤ + ← →	For more brightness
TINT*-1	To move tint toward purple	◆├──┼──┤◇ ← →	To move tint toward green
SHARPNESS	For less sharpness	- ├──┼──┤ + ← →	For more sharpness
PICTURE NR*-2		ON ←→ OFF	(See note below)
WHITE TEMP	To more reddish background	◆├──┼──┤◇ ← →	To more bluish background

*-1: TINT can only be selected and adjusted when receiving NTSC broadcasts. (AV only)
*-2: Picture Noise Reduction
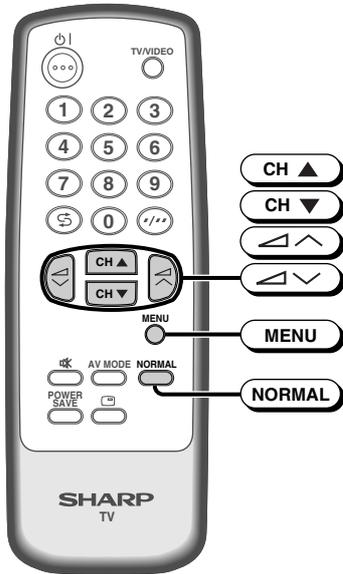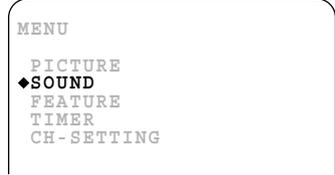   Noise might be generated on images when playing deteriorated video tapes or when receiving broadcasts with relatively weak signals. In these cases, set PICTURE NR to "ON" to reduce the noise. However, when receiving good images without noise, you can get better image quality by turning OFF this feature.

E 16

Settings and adjustments

Sound adjustment

1 Press (MENU) to call MENU screen.

2 Press (CH ▲) / (CH ▼) to select "SOUND".

```
MENU

  PICTURE
◆SOUND
  FEATURE
  TIMER
  CH-SETTING
```

3 Press (⊿∧) / (⊿∨) to display SOUND menu.

4 Press (CH ▲) / (CH ▼) to select adjustment items.

```
SOUND         (STANDARD)

  SURROUND        ON
◆TREBLE          +10
  BASS           -20
  BALANCE        ▷20
```

5 Adjust using (⊿∧) / (⊿∨).

• Wait for approximately three seconds to return to SOUND menu.
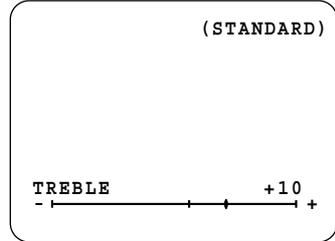
```
                  (STANDARD)




TREBLE                   +10
-├────────┼────┼──────┤ +
```

6 Repeat steps 4 and 5 above to adjust other items.

7 Press (MENU) until normal screen appears.

• When (NORMAL) is pressed while the SOUND menu is displayed, the setting for the selected item is reset to the standard (factory setting) position.

• When (NORMAL) is pressed while the MENU screen is displayed and "SOUND" is selected, all the settings for the SOUND items are reset to the standard (factory setting) position.

The following table lists the adjustment items shown in the SOUND menu and how they change as you press (⊿∧) / (⊿∨).

Selected item	Press ⊿∨		Press ⊿∧
SURROUND	The surround effect is ON	ON ←→ OFF	The surround effect is OFF
TREBLE	To decrease treble	-├──┼●┼──┤+ ← →	To increase treble
BASS	To decrease bass	-├──┼●┼──┤+ ← →	To increase bass
BALANCE	To shift balance toward left	▷├───┼●──┤◁ ← →	To shift balance toward right

E 17

Blue screen

Automatically turns the screen blue if a broadcast signal is not received.
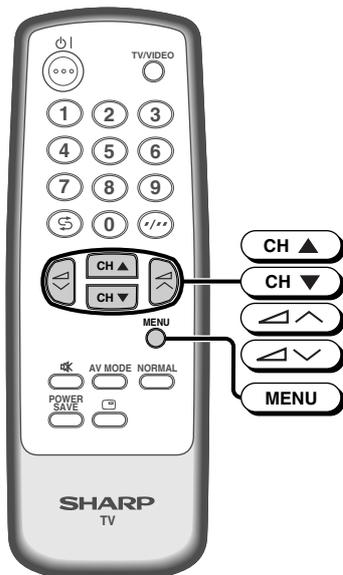
1 Press (MENU) to call MENU screen.

2 Press (CH ▲) / (CH ▼) to select "FEATURE ".

```
MENU

 PICTURE
 SOUND
◆FEATURE
 TIMER
 CH-SETTING


⌄CH^:SELECT
⌄◁^:ENTER   MENU:RETURN
```

3 Press (◁∧) / (◁∨) to display FEATURE menu.

4 Press (CH ▲) / (CH ▼) to select "BLUE BACK".

5 Press (◁∧) / (◁∨) to select "ON" or "OFF".

```
FEATURE

◆BLUE BACK      ON
 SAVE           ON
 VM             ON


⌄CH^:SELECT
⌄◁^:ADJUST  MENU:RETURN
```

6 Press (MENU) until normal screen appears.
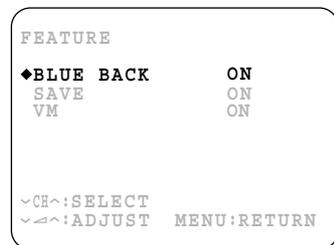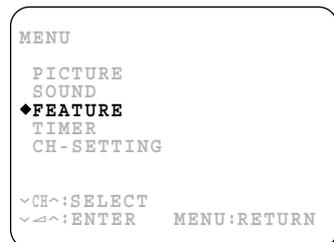
When BLUE BACK is set to "ON"

No signal		Blue screen		TV off	(Indicator)

after five seconds   after 15 minutes

Standby mode   Power indicator lights up red

NOTE ► • Poor reception due to weak signals and too much noise may activate BLUE BACK, despite the presence of a broadcast signal. To continue watching TV under these conditions, switch "BLUE BACK" to "OFF".
• When Off timer is set, the OFF TIMER setting has priority over BLUE BACK.

Settings and adjustments

Save

This function reduces the picture brightness to create a softer image while saving electricity.

Using Menu

1 Press (MENU) to call MENU screen.

2 Press (CH ▲) / (CH ▼) to select "FEATURE".

```
MENU

 PICTURE
 SOUND
◆FEATURE
 TIMER
 CH-SETTING

⌄CH^:SELECT
⌄◁^:ENTER   MENU:RETURN
```

3 Press (⊿∧) / (⊿∨) to display FEATURE menu.

4 Press (CH ▲) / (CH ▼) to select "SAVE".

5 Press (⊿∧) / (⊿∨) to select "ON" or "OFF".
• When SAVE is set "ON", the POWER SAVE indicator on the TV set lights up in red.
• When SAVE is set "OFF", the POWER SAVE indicator on the TV set is turn off.
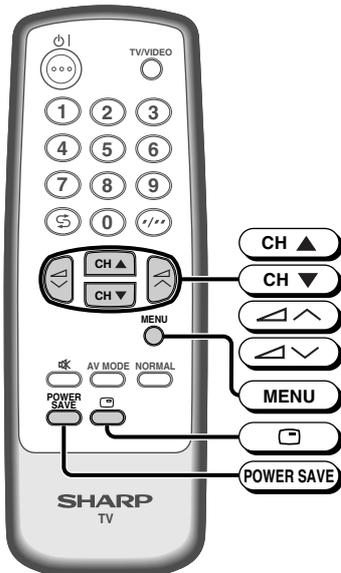
```
FEATURE

 BLUE BACK      ON
◆SAVE           ON
 VM             ON

⌄CH^:SELECT
⌄◁^:ADJUST   MENU:RETURN
```

6 Press (MENU) until normal screen appears.

TV Set
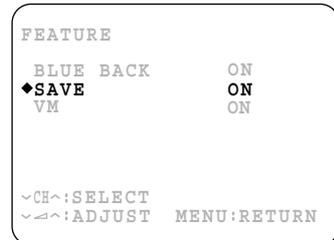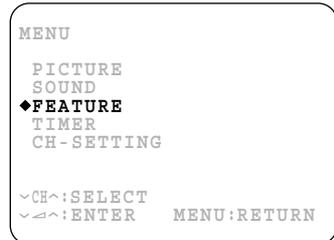
POWER SAVE indicator (Red)
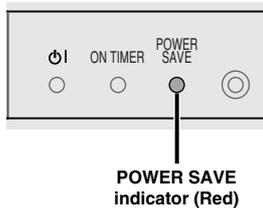
Using Remote Control

1 Press (POWER SAVE) to display the SAVE mode screen.

2 Each time you press (POWER SAVE), the mode switches between "ON" and "OFF".
• When SAVE is set "ON", the POWER SAVE indicator on the TV set lights up in red.
• When SAVE is set "OFF", the POWER SAVE indicator on the TV set is turn off.

```
SAVE
 ON


 ↓


SAVE
 OFF
```

3 Press (▭) to turn off the SAVE mode screen.

E 19

Dimension: 176 x 250 mm
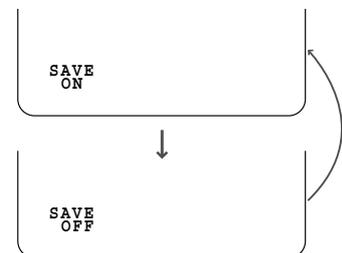
VM (Velocity Modulation)

This function emphasizes the picture outline.
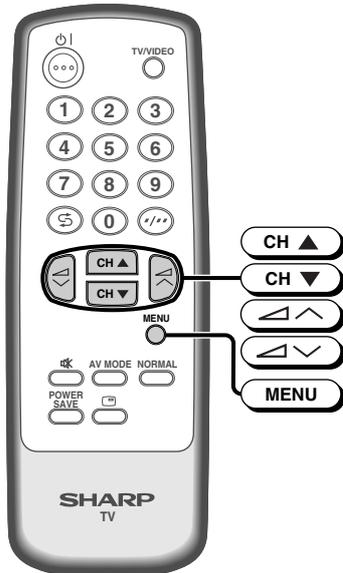
1 Press (MENU) to call MENU screen.

2 Press (CH ▲) / (CH ▼) to select "FEATURE".

```
MENU

 PICTURE
 SOUND
◆FEATURE
 TIMER
 CH-SETTING


⌄CH^:SELECT
⌄◁^:ENTER   MENU:RETURN
```

3 Press (◁∧) / (◁∨) to display FEATURE menu.

4 Press (CH ▲) / (CH ▼) to select "VM".

5 Press (◁∧) / (◁∨) to select "ON" or "OFF".

```
FEATURE

 BLUE BACK      ON
 SAVE           ON
◆VM             ON



⌄CH^:SELECT
⌄◁^:ADJUST  MENU:RETURN
```

6 Press (MENU) until normal screen appears.

NOTE ► • If a picture is received with noise, ensure that the VM is set to "OFF".

Dimension: 176 x 250 mm

Settings and adjustments

Off timer

Automatically turns power off after a set length of time has passed.
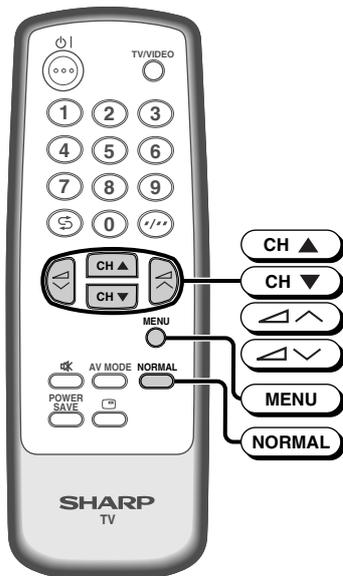
1 Press (MENU) to call MENU screen.

```
MENU

 PICTURE
 SOUND
 FEATURE
◆TIMER
 CH-SETTING
```

2 Press (CH ▲) / (CH ▼) to select "TIMER".

3 Press (⊿∧) / (⊿∨) to display TIMER menu.

4 Press (CH ▲) / (CH ▼) to select "OFF ⊡ ".

```
TIMER

◆OFF⊡              --:--
 ON ⊡              --:--
  POSITION
  VOLUME
 ☒                 --:--

⌄CH⌃:SELECT
⌄⊿⌃:ADJUST  MENU:RETURN
```

5 Press (⊿∧) / (⊿∨) to set time for TV to turn off.

• Maximum time that can be preset is 12 hours and 50 minutes.

• As soon as the time is entered, the timer starts to count down.

```
TIMER

◆OFF⊡             2:30
 ON ⊡             --:--
  POSITION
  VOLUME
 ☒                --:--

⌄CH⌃:SELECT
⌄⊿⌃:ADJUST  MENU:RETURN
```

6 Press (MENU) until normal screen appears.

• Five minutes before the preset length of time expires (in the example, after two hours and 25 minutes), the remaining time appears on the screen.

• A flashing display of the remaining time appears during the last few seconds.

• When the preset length of time has passed, the TV set enters the Standby mode.

```
OFF⊡  0:05
OFF⊡  0:04
OFF⊡  0:03
OFF⊡  0:02
OFF⊡  0:01
-OFF⊡  0:00-
```

Flashing
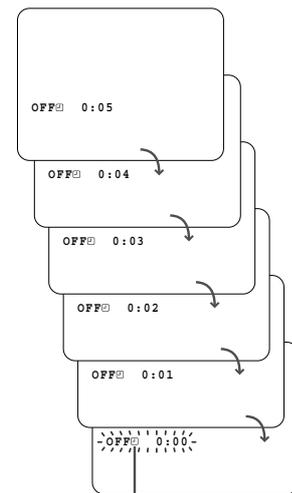
NOTE • To cancel the timer setting, press (NORMAL) when "◆" is displayed on the left of "OFF ⊡" so as to set the timer to "- - : - -".

• The timer can be set in ten-minute intervals.

• The Off timer is cancelled if the power is turned off or set to the Standby mode using (⏻) or (Ⅰ) on the TV set, or if the power is otherwise interrupted.

Dimension: 176 x 250 mm

On timer

Automatically turns power on after a set length of time has passed.

1 Press (MENU) to call MENU screen.

2 Press (CH ▲) / (CH ▼) to select "TIMER".

```
MENU

  PICTURE
  SOUND
  FEATURE
◆TIMER
  CH-SETTING
```

3 Press (⊿∧) / (⊿∨) to display TIMER menu.

4 Press (CH ▲) / (CH ▼) to select "ON ⏱".

```
TIMER

  OFF⏱           --:--
◆ON ⏱           --:--
   POSITION
   VOLUME
  ⏱              --:--
```

5 Press (⊿∧) / (⊿∨) to set time for TV to turn on.

• Maximum time that can be preset is 12 hours and 50 minutes.

• As soon as the time is entered, the timer starts to count down.

```
TIMER

  OFF⏱           --:--
◆ON ⏱           8:00
   POSITION        --
   VOLUME          --
  ⏱              --:--
```

6 Press (CH ▲) / (CH ▼) to select "POSITION".

7 Press (⊿∧) / (⊿∨) to set the channel.

```
TIMER

  OFF⏱           --:--
  ON ⏱           8:00
◆ POSITION      CH28
   VOLUME          --
  ⏱              --:--
```

8 Press (CH ▲) / (CH ▼) to select "VOLUME".

9 Press (⊿∧) / (⊿∨) to set volume.

10 Press (⏻) to put TV set into Standby mode.

```
TIMER

  OFF⏱           --:--
  ON ⏱           8:00
   POSITION      CH28
◆ VOLUME          20
  ⏱              --:--

⌄CH⌃:SELECT
⌄⊿⌃:ADJUST  MENU:RETURN
```

• The On timer indicator lights up Red.

• When the preset length of time (in the above example, eight hours) has passed, the power turns on and a picture appears on the screen. The On timer speaker volume gradually increases from zero to the preset volume.

TV Set
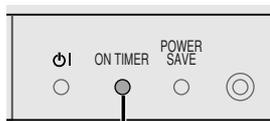
⏻   ON TIMER   POWER
                 SAVE
○   ●   ○   ◎

On timer indicator (Red)

NOTE ▸ • To cancel the timer setting, press (NORMAL) when "◆" is displayed on the left of "ON ⏱" so as to set the timer to "- - : - -".

• The timer can be set in ten-minute intervals.

• The On timer is cancelled if the power is turned off using (⏻).

• If the TV set is turned on by the On timer, then the TV set will be automatically turned off in two hours if no buttons are pressed on the TV set or remote control.

E 22

Settings and adjustments

Reminder on-screen timer

Lets you know when a preset length of time has passed by displaying a countdown timer on the screen. This is useful for timer cooking while you watch TV.
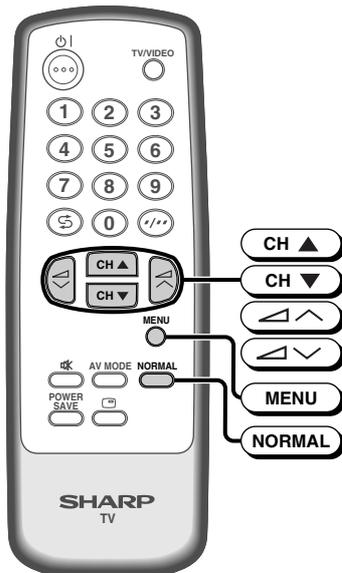
1 Press (MENU) to call MENU screen.

2 Press (CH ▲) / (CH ▼) to select "TIMER".

```
MENU

  PICTURE
  SOUND
  FEATURE
◆TIMER
  CH-SETTING
```

3 Press (⊿∧) / (⊿∨) to display TIMER menu.

4 Press (CH ▲) / (CH ▼) to select "⧖".

```
TIMER

  OFF⊡              --:--
  ON ⊡              --:--
   POSITION
   VOLUME
◆⧖                 --:--

∨CH∧:SELECT
∨⊿∧:ADJUST  MENU:RETURN
```

5 Press (⊿∧) / (⊿∨) to set time.

• Maximum time that can be preset is 12 hours and 50 minutes.

• The right example shows that the Reminder will be activated after one hour 50 minutes.

```
TIMER

  OFF⊡              --:--
  ON ⊡              --:--
   POSITION
   VOLUME
◆⧖                  1:50

∨CH∧:SELECT
∨⊿∧:ADJUST  MENU:RETURN
```

6 Press (MENU) until normal screen appears.

• Five minutes before the preset length of time expires (in the example, after one hour and 45 minutes) and each minute thereafter, the remaining time appears on the screen for several seconds.

• When the preset length of time has passed, "⧖ 0:00" flashes in red.

```
⧖    0:05
  ⧖    0:04
    ⧖    0:03
      ⧖    0:02
        ⧖    0:01
          ⧖    0:00
```

Flashing
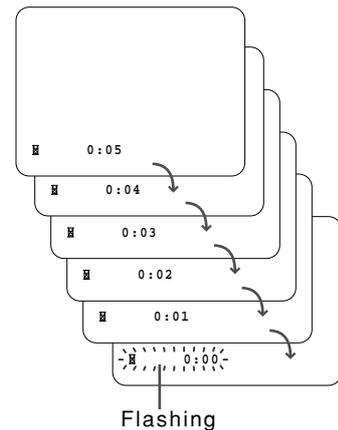
NOTE ➤ • This function also works in the Standby mode. Power is automatically turned on five minutes before the preset length of time expires. The TV set automatically returns to the Standby mode approximately 30 seconds after the preset time.

• The Reminder is cancelled if (⚬I) on the TV set is pressed or if the power is otherwise interrupted.

• The timer can be set in ten-minute intervals.

• To cancel the timer setting, press (NORMAL) when "◆" is displayed on the left of "⧖" so as to set the timer to "- - : - -".

E 23

Connections

Connecting to a DVD player

The DVD input terminals (COMPONENT-IN) on the rear of the TV can be used to input high-quality images from a DVD player.

DVD input terminals

AV-2 IN   COMPONENT

Y

P_B (C_B)

P_R (C_R)

To audio out
(L/R) terminals

To colour-difference
(component video)
out terminals

TV

DVD player

Connecting the video terminals

DVD input terminals		DVD player
COMPONENT-IN VIDEO	Y	Y or Y/Y
	P_B (C_B)	P_B (C_B) or B-Y/Pb
	P_R (C_R)	P_R (C_R) or R-Y/Pr
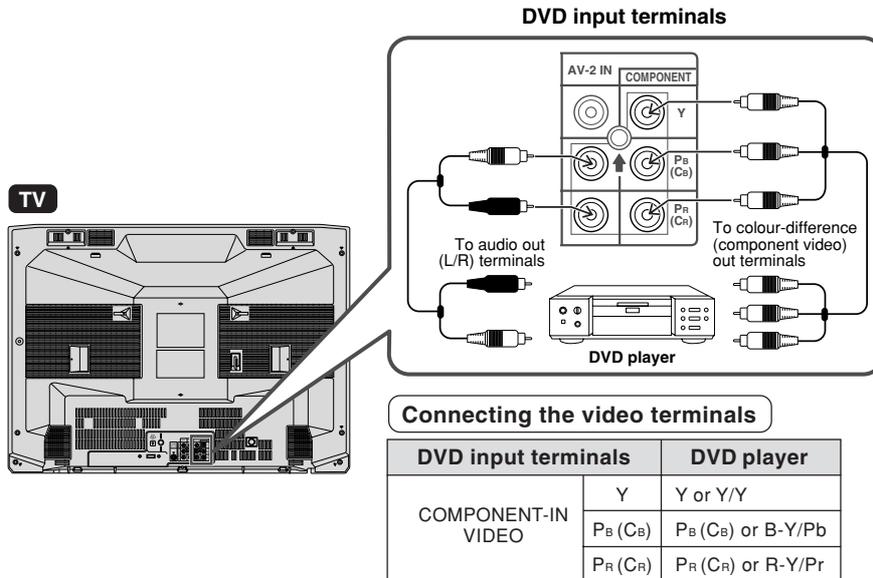
Watching DVD Playback

TV/VIDEO

1 Press (TV/VIDEO) to select "COMPONENT", DVD input screen.

COMPONENT

2 Turn on the DVD player and begin playback.
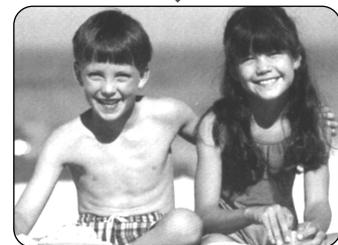
NOTE
• When connecting the TV to a DVD player via the Component-in terminals, the video and audio from the DVD player cannot be output through the Audio/Video out terminals on the TV.
• Please refer to the operation manual of your DVD player for more information.
• Be sure to fully insert the plugs of the connecting cables into the terminals on the TV set and video equipment. Failure to do so may result in noise.
• Before connecting the cables, turn off the power of the TV set and video equipment.
• Always remove the cables from the terminals by the plugs and not the cables themselves.

E 24

Connecting to an antenna

To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for coaxial and feeder cables.

If your outdoor antenna uses a 75-ohm coaxial cable with a standard DIN45325 plug (IEC 169-2), plug it into the antenna jack at the rear of the set.

If your outdoor antenna uses a 300-ohm twin-lead flat feeder, connect a 300-ohm to 75-ohm impedance converter and plug it into the antenna jack at the rear of the set.

TV

Standard DIN45325 plug (IEC169-2)

75-ohm coaxial cable (round cable) (not supplied)

300-ohm twin-lead flat feeder (not supplied)

75-ohm impedance converter (not supplied)

ANT/ CABLE 75Ω
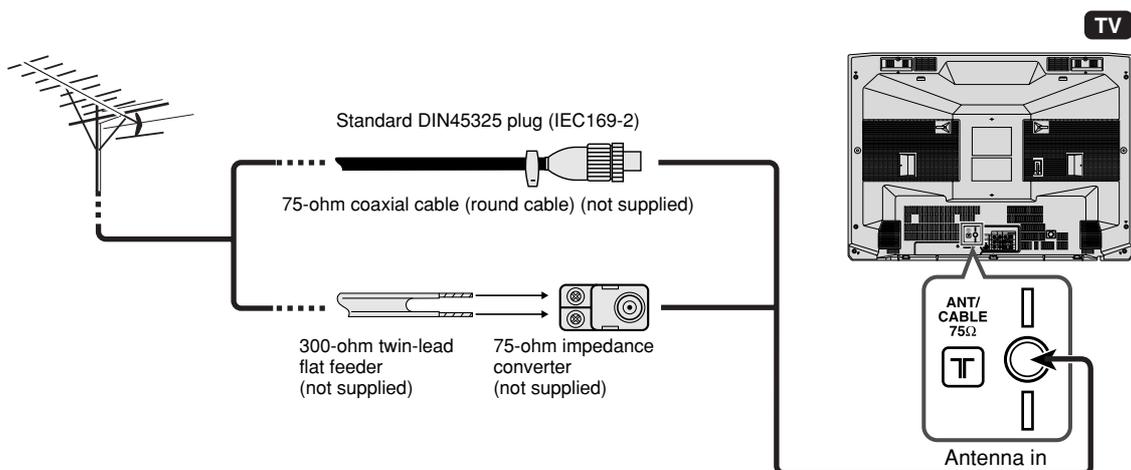
Antenna in

Connecting to an antenna via a VCR

You can also connect the TV set to the tuner on a VCR using the connection shown below.

VCR

TV

To antenna in terminal

To RF out terminal

ANT/ CABLE 75Ω

Antenna in
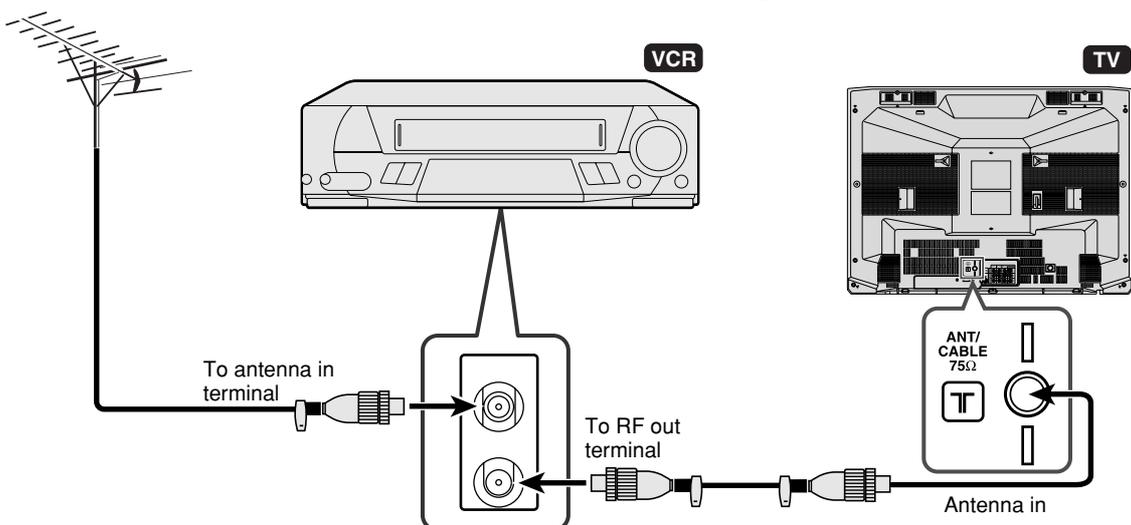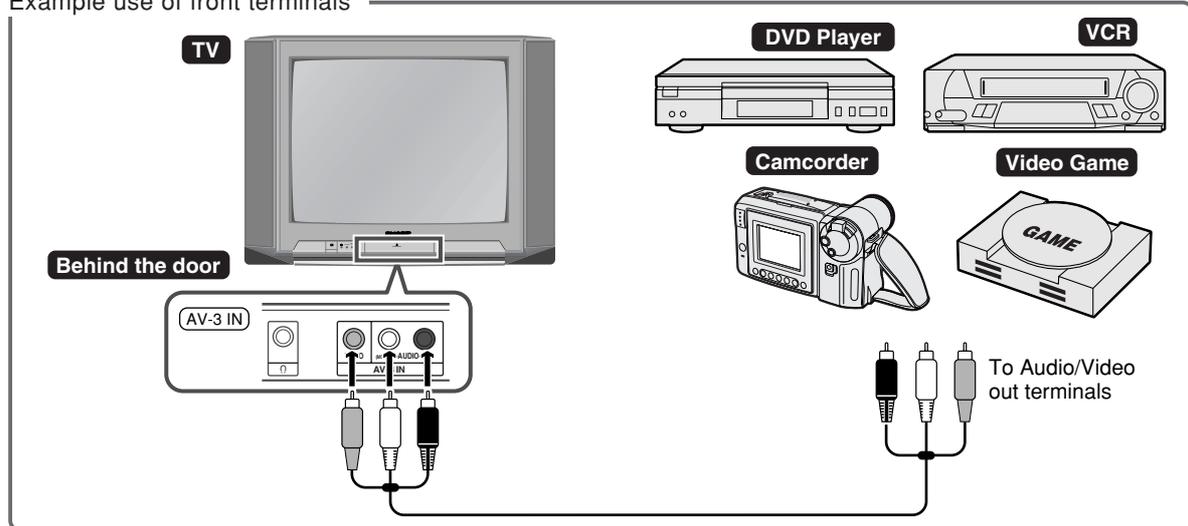
NOTE
• When using the RF terminal connection, set the TV to channel zero to make initial adjustments for the VCR.
• Turn off the power on the TV set and the VCR being connected before making the above connections.
  Be sure the cord plugs are fully inserted in the connection terminals.
• See the operation manual of your VCR for connection details.
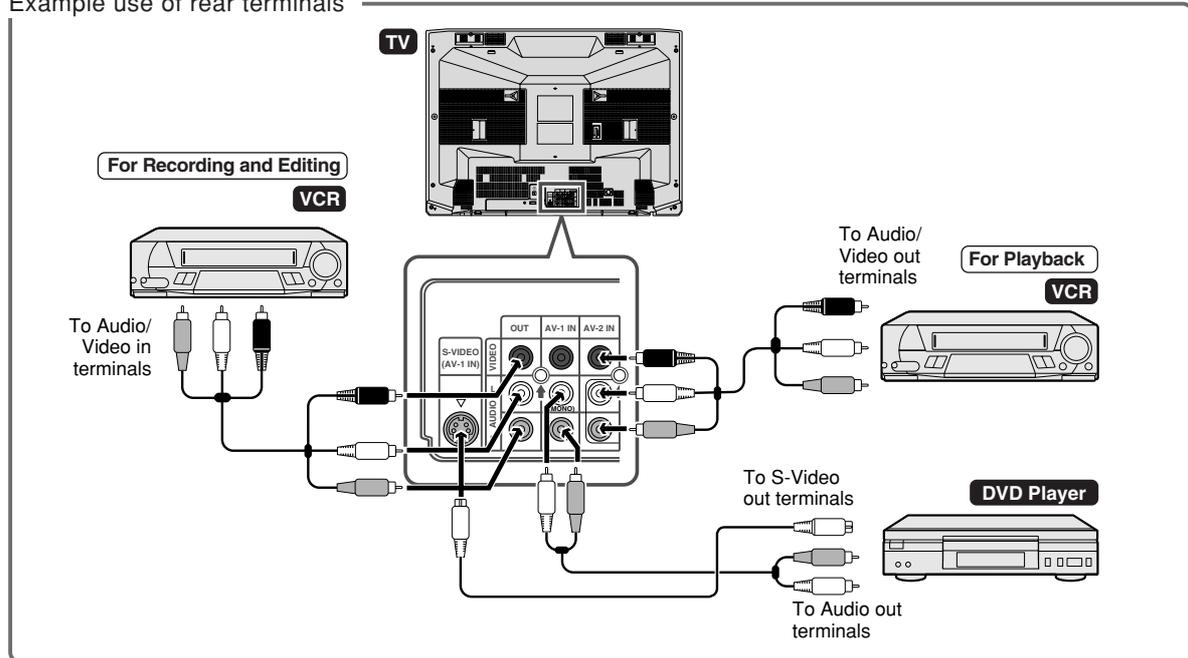
Dimension: 176 x 250 mm

Connections

Connecting to video equipment

Enjoy playback from a video disc player, VCR or other video equipment by connecting them to this TV set using the Audio/Video in terminals.

Example use of front terminals

Example use of rear terminals

NOTE ➤ • The S-Video Terminal has the priority over the AV terminal.
• The S-Video Terminal and Audio (L-R) terminals must be connected to playback DVD.
• Turn off the power on the TV set and the VCR being connected before making the above connections. Be sure the cord plugs are fully inserted in the connection terminals.
• For playback of monaural audio, connect the external source to the audio input left terminal on the front or rear of the TV set (MONO) to hear the same sound from both speakers.
• The audiovisual cords required to connect the TV set with video equipment may differ from those shown in the above diagram. See the operation manual of your video equipment for connection details.
• The above recording and editing connections are for intended solely for personal use and not for the illegal copying of audiovisual material protected by copyright laws.

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🖳 Troubleshooting

The following problems do not always indicate a hardware failure. Therefore, please use the troubleshooting guide below before calling for repair service.
If, after following the guide none of the remedies work, unplug the TV set and call for service.

Quick Service Check List — Possible Causes/Remedies	Remote control does not work.	Bars on screen	Picture distorted.	Picture rolls vertically.	No colour	Poor reception on some channels	Picture weak.	Picture lines or streaks	Picture ghosting	Picture blurred.	Sound OK, picture poor.	Picture OK, sound poor.	No picture or sound
Try a new channel to check for possible station trouble.			●	●	●	●	●	●	●	●	●	●	●
TV not plugged in. Outlet power OFF.	●												●
POWER switch of TV not ON.	●												●
Antenna not connected to terminal at the back of the TV set.					●	●	●		●		●		●
If outside antenna is used, check for broken wires.		●	●	●	●	●	●	●	●	●	●		●
Check for local interference.		●		●		●		●	●		●	●	
Turn OFF using the **POWER** switch, then turn ON again after a minute.	●												●
Adjust COLOUR control.					●		●				●		
Check batteries in the remote control.	●												
Try fine tuning to correct.			●		●		●			●	●		
Contrast setting in picture mode might be all the way to the minus side. Press the **NORMAL** button on the remote control to correct.											●		●
Increase the volume.												●	●

NOTE ▶ • This unit is equipped with a microprocessor. Its performance could be adversely affected by external electrical noise or interference. If this should happen, unplug the unit and plug it in again after a few minutes.

Dimension: 176 x 250 mm

📏 Specifications

MODEL		CX68N5
Receiving System		
	TV Broadcasts/ VCR Playback	PAL-B/G
	VCR Playback (Using Video-in terminals)	PAL 60 Hz NTSC 3.58 MHz NTSC 4.43 MHz
	Laserdisc Player Playback (Using RF-in terminals)	PAL 5.5 MHz/60 Hz
	VCR Playback (Using S-Video terminal)	S-VIDEO NTSC 3.58 MHz S-VIDEO NTSC 4.43 MHz S-VIDEO PAL
	Special VCR and VDP Playback	Video-in 50/60 Hz S-VIDEO in 50/60 Hz
Reception Channels		
PAL-B/G	VHF	AU0-AU12 ch, E2-E12 ch
	UHF	E21–E69 ch
CATV		S1–S20 ch, S21–S41 ch (Hyper)
Receiving Frequency		44.25 MHz – 863.25 MHz
Channel Tuning		100-channel Electronic Tuner with Full Auto Tuning System
Picture Tube		68 cm Tinted
Terminals		Audio/Video input × 3 (Front × 1, Rear × 2) Audio/Video output × 1 (Rear) Headphone jack (Front × 1) S-Video input × 1 (Rear) DVD input (COMPONENT-IN) × 1 (Rear)
Sound Output		7.5 W (RMS) × 2
Power Source		Rated AC 220–240V, 50 Hz
Power Consumption		145 W
Dimensions		800 (W) × 583 (H) × 497 (D) mm
Weight		38.5 kg (Approx.)

NOTE ▶ • Design and specifications are subject to change without notice.
• Receiving system: These receiving systems, encompassing all currently available technology, include those with planned broadcast, videotape and laserdisc hardware and software.
• Reception channels: Some examples of the main receivable channels are shown above.

Notes

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Dimension: 176 x 250 mm

SHARP

WARRANTY

Consumer Electronic Products

Congratulations on Your Purchase!

This Sharp product is warranted against faults in materials and manufacture for a period of twelve (12)* months from the date of original purchase.

If service is required during the warranty period, please contact your nearest Sharp Approved Service Centre. These repairs would be carried out at no charge to the owner, subject to the conditions specified herein.

The owner is responsible for any transportation and insurance costs if the product has to be returned for repair.

This warranty does not extend to accessories or defects or injuries caused by or resulting from causes not attributable to faulty parts or the manufacture of the product, including but not limited to, defect or injury caused by or resulting from misuse, abuse, neglect, accidental damage, improper voltage, liquid spillage, vermin infestation, software, or any alterations made to the product which are not authorised by Sharp.

Please retain your sales documentation, as this should be produced to validate a warranty claim.

This warranty is in addition to and in no way limits, varies or excludes any express and implied rights and remedies under any relevant legislation in the country of sale.

IMPORTANT
DO NOT RETURN THIS PAGE TO SHARP

For your reference, please enter the particulars of your purchase below and retain, with your purchase documentation.

Model No._____

Serial No._____

Date of Purchase_____

Retailer _____

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AUSTRALIA

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www.sharp.net.au
OR CALL SHARP
1 300 135 022

SHARP CORPORATION OF AUSTRALIA PTY. LIMITED
A.B.N. 40 003 039 405
1 Huntingwood Drive Blacktown NSW 2148

IMPORTANT NOTICE: This warranty applies only to products sold in Australia

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